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☐ 1: Cell. 1995 May 19;81(4):505-12.

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FADD, a novel death domain-containing protein, interacts with the death domain of Fas and initiates apoptosis.**Chinnaiyan AM, O'Rourke K, Tewari M, Dixit VM.**

Department of Pathology, University of Michigan Medical School, Ann Arbor 48109, USA.

Using the cytoplasmic domain of Fas in the yeast two-hybrid system, we have identified a novel interacting protein, FADD, which binds Fas and Fas-FD5, mutant of Fas possessing enhanced killing activity, but not the functionally inactive mutants Fas-LPR and Fas-FD8. FADD contains a death domain homologous to the death domains of Fas and TNFR-1. A point mutation in FADD, analogous to the *lpr* mutation of Fas, abolishes its ability to bind Fas, suggesting a death domain to death domain interaction. Overexpression of FADD in MCF7 and BJAB cells induces apoptosis, which, like Fas-induced apoptosis, is blocked by CrmA, a specific inhibitor of the interleukin-1 beta-converting enzyme. These findings suggest that FADD may play an important role in the proximal signal transduction of Fas.

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